MD RECEIVER

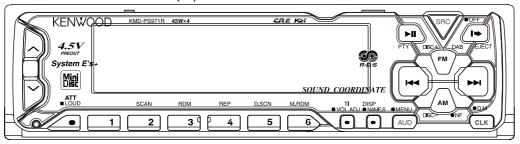
KMD-PS971R/X92 SERVICE MANUAL

KENWOOD

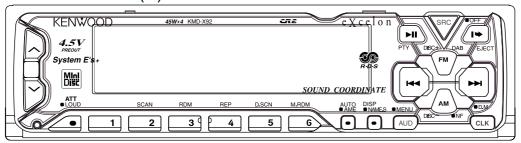
© 2000-7 PRINTED IN KOREA B51-7652-00 (K) 3129

Refer to the service manual "X92-3390-00,0-01_X92-3560-00,X92-3580-00" (B51-7461-10) for MECHANISM ASSY's information.

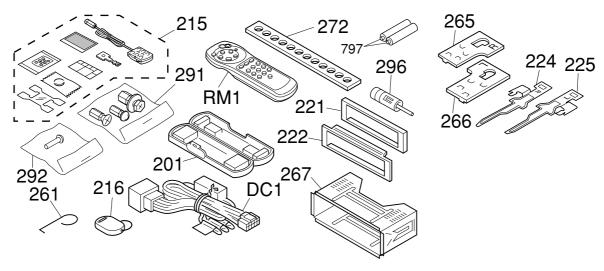
KMD-PS971R (E)



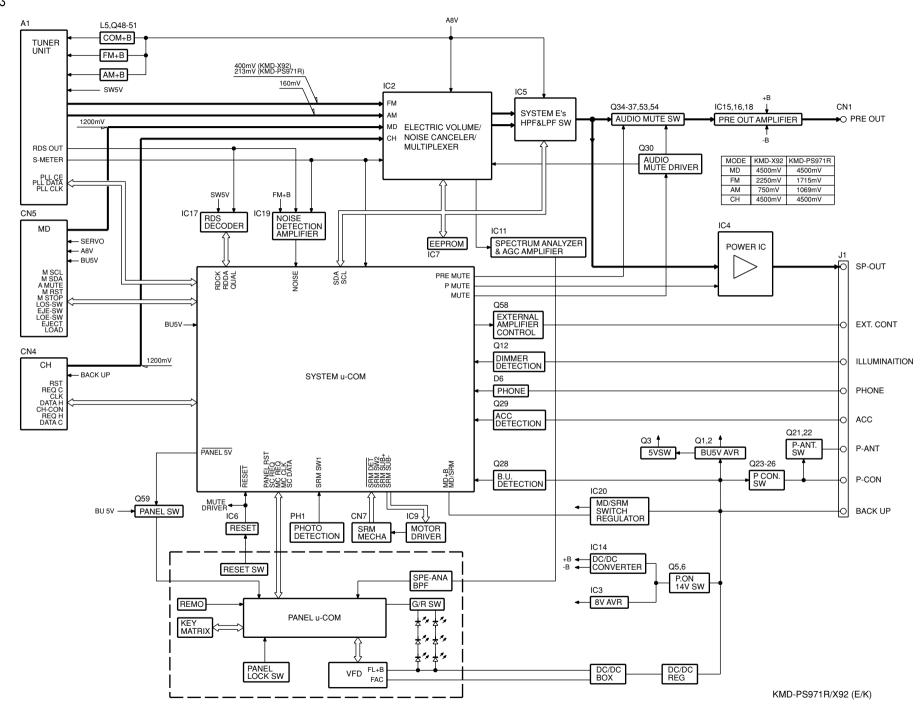
KMD-X92 (K)



The following reference numbers with accessory parts are the same reference numbers used on EXPLODED VIEW and PARTS LIST.







COMPONENT DESCRIPTION

SWITCH UNIT (X13-9710-10)

REF.	FUNCTION	OPERATION
No.		
Q1	CONTROL SW BETWEEN ED1 to IC1	Works when Q5's base level comes "H".
Q2	REMOTE CONTROLLER POWER SW	Works when the base level comes "L" during power on.
Q3	BRIGHTNESS CONTROL	Adjusts brightness with pulse width.
Q5	CONTROL SW BETWEEN ED1 to IC1	Works when the base level comes "H".
Q6,7	ILLUMINATION SW	Make illumination-on when the base levels comes "H".
Q8	CONTROL SW BETWEEN ED1 to IC1	Works when Q5's base level comes "H".

ELECTRIC UNIT (X25-848x-xx)

REF.	FUNCTION	OPERATION
No.	FUNCTION	OPERATION
Q3	5V SW	Works when the base level comes "L".
Q4	AUDIO 8V AVR	Works when Q56's base level comes "H".
Q5,6	P.ON 14V SW	Work when the base levels come "H".
Q8-11	ILLUMINATION SW	Works when Q9's base level comes "H".
Q12	DIMMER DETECTION	Works when the base level comes "H" during illumination comes on.
Q13,14	DC/DC CONVERTER +B SW	Work when Q14's base level comes "H".
Q21,22	P-ANT. SW	Work when Q22's base level "H" during FM or AM signal is received.
Q23	P-CON. SW	Works when Q26's base level comes "H".
Q24,25	P-CON. SW PROTECTION	Work when the P-CON. output volume level comes down.
Q26	P-CON. SW	Works when the base level comes "H".
Q28	BACK-UP DETECTION	Works when the momentary power down is detected.
Q29	ACC DETECTION	Works when ACC is turned off.
Q30	AUDIO MUTE DRIVER	Makes mute turns on when the base level comes "L".
Q32	SPECTRUM ANALYZER AGC	Controls spectrum analyzer level.
Q33	E-VOL. MUTE SW	Makes mute turns on when the base level comes "H".
Q34-37	AUDIO MUTE SW	Makes mute turns on when the base level comes "H".
Q38	SVR SW	Works when momentary power down is detected.
Q43,44	NOISE DETECTION TIME CONSTANT SW	Q43's base comes "L" during searching, and comes
Q-10,-1-1	TWO DE DETECTION TIME CONCITAINT ON	"H" during tuner signal is received.
Q45	K2I WIDE/NARROW SW	Makes mode to the forced wide when the base level comes "H".
Q48,49	AM +B SW	Works during AM signal is received.
Q50,51	FM +B SW	Works during FM signal is received.
Q52	VOLTAGE SW	Works when MD plays.
Q53,54	AUDIO MUTE SW	Makes mute turns on when the base level comes "H".
Q56,57	AUDIO 8V AVR	Work when Q56's base level comes "H".
Q58	EXTERNAL AMPLIFIER CONTROL SW	Works when the base level comes "L".
Q59	PANEL SW	Works when the base level comes "L".

MICROCOMPUTER'S TERMINAL DESCRIPTION

(X25-) IC1 : μ-COM

PORT No.	PORT NAME	I/O	FUNCTION	OPERATING CONDITION
1	CH CON	0	Changer control.	-
2	CH MUTE	ı	Mute from the changer.	-
3	REQ H	0	Hand shaking request to the changer.	-
4	ILL ON	0	Illumination.	-
5	MD/SRM	0	MD or SRM.	-
6	PACK DET	ı	Disc detection.	-
7	LOS SW1	ı	Loading SW detection.	"L" : Loading starts.
8	MD+B	0	Power supply for MD.	"H" : SRM mechanism runs in MD mode.
9	VDD	-	Power supply.	-
10	X2	-	Main clock.	-
11	X1	-	Main clock.	-
12	VSS	-	GND.	-
13	XT2	_	Sub clock.	-
14	XT1	_	Sub clock.	-
15	RESET	1	Reset.	"L" (3V) : Reset.
16	CH RST	o	Reset to the changer.	- (51) 11.00011
17	R CLK	ī	RDS clock.	-
18	REQ C	ı	Hand shaking request from the changer.	-
19-21	N.C.	-	No connection.	-
22	SC REQ	0	Request from panel μ-com.	
23	AVDD	-	Analogue power supply.	
24	AVREF 0	_	Reference voltage.	
	AVREFU	-	Reference voltage.	Less than 1V : Tel mute.
25	PHONE(E)	I	Phone detection.	More than 2.5V : Navigation mute.
26	SRM SW1	ı	SRM positioning detection.	-
27	NOISE(E)	I	FM noise detection.	-
28	S METER	1	FM S-meter detection.	-
29	IF MODE	- 1	K2I IF detection.	"H" : Wide. "L" : Narrow.
30	N.C.	-	GND.	-
31	M MUTE R	I	Rch mute request from MD mechanism.	-
32	M MUTE L	ı	Lch mute request from MD mechanism.	-
33	AVSS	-	Analogue GND.	-
34	EX. AMP	0	External amplifier control.	-
35	M RST	0	Reset to MD mechanism.	-
36	AVREF 1	-	Reference voltage.	-
37	DATA C	ı	Data line from the changer.	-
38	DATA H	0	Data line to the changer.	-
39	CH CLK	1/0	Clock line to the changer.	-
40	SC DATA	I/O	Data line from μ-com.	-
41	MC DATA	1/0	Data line to μ-com.	
42	MC CLK	1/0	Clock to panel μ-com.	-
43	M STOP	0	Stop request to MD mechanism.	-
44	BEEP	0	Beep.	
45	PLL CE	0	Chip enable to PLL.	-
	PLL DATA	0	Data line to PLL.	
46				
47	PLL CLK	0	Clock to PLL.	- IIII - Classolding
48	LOE SW	1	Down SW detection.	"H" : Chucking.
49	EJECT	0	SW for MD mechanism and MD eject.	-
50	LOAD	0	MD loading.	-

MICROCOMPUTER'S TERMINAL DESCRIPTION

(X25-) IC1 : μ-COM

PORT No.	PORT NAME	I/O	FUNCTION	OPERATING CONDITION
51	N.C.	-	No connection.	-
52	PAN 5V	0	Panel ON/OFF.	-
53	MC REQ	I/O	Lock SW.	-
54	PRST	0	Panel μ-com reset.	-
55	N.C.	-	No connection.	-
56	QUAL	ı	RDS receiving.	-
57	R DATA	ı	RDS data.	-
58	SRM SUB-	0	SRM mechanism sub motor.	-
59	SRM SUB+	0	SRM mechanism sub motor.	-
60	SRM DET	ı	SRM mechanism detection.	-
61	SRM SW2	- 1	SRM eject positioning detection.	-
62	FM SD	ı	FM SD.	-
63	N.C.	-	No connection.	-
64	AFC	0	Noise detection time constant SW.	"H" : Receiving. "L" : FM/AM seeking or AF searching.
65	N.C.	-	No connection.	-
66	WIDE	0	K2I forced wide.	-
67	NARROW	I/O	K2I forced narrow.	-
68	AM+B	0	AM power supply.	-
69	FM+B	0	FM power supply.	-
70,71	N.C.	-	No connection.	-
72	VSS	-	GND.	-
73	TYPE 0	1	Destination SW.	-
74	TYPE 1	ı	Destination SW.	-
75	TYPE 2	ı	Destination SW.	-
76	ST TYPE 0	ı	Destination SW.	-
77	ST TYPE 1	ı	Destination SW.	-
78	N.C.	-	No connection.	-
79	PRE MUTE	0	Pre mute.	"L" : Momentary power down.
80	N.C.	-	No connection.	-
81	VDD	-	Back-up 5V.	-
82	N.C.	-	No connection.	-
83	SVR	0	SVR.	"H": Momentary power down or power off.
84	N.C.	-	No connection.	-
85	P MUTE	0	Power IC mute.	-
86	ANT CON	0	Antenna control.	"H" : Tuner or TI. "L" : Other modes.
87	TC2 SCK	0	IC2, IC5 and EEPROM clock line.	-
88	DIMMER	- 1	"SMALL" detection.	-
89	P-ON	0	Power control.	-
90	ACC DET	ı	ACC detection.	-
91	N.C.	-	No connection.	-
92	P.ON	0	Power supply for circumference of μ-com.	-
93	B.U. DET	ı	Momentary power down detection.	-
94	TEST	-	Test.	-
95	TC2 SDA	I/O	IC2, IC5 and EEPROM clock line.	-
96	MUTE	0	Mute.	-
97	SW5	0	5V power supply.	-
98	MS CL	0	Clock line to MD mechanism.	-
99	MS DA	1/0	Data line to MD mechanism.	-
	1, .		to moonamonn	

TEST MODE

- (1) How to enter the test mode
- 1. Reset the unit while holding the "FM" and preset "6" keys depressed.
- 2. All indications light up at the moment when the test mode starts.
- (2) How to cancel from the test mode
- 1. Reset the unit while holding the preset "6" key.
 - (Note) The test mode is not canceled by turning ACC OFF, turning power OFF or causing momentary power down.
- (3) FM S-meter voltage adjustment
- 1. Enter the test mode.
- 2. While holding the preset "1" key depressed, press and hold the preset "6" key.
- 3. "ADJ OK" is displayed when the result is OK or "ADJ NG" is displayed when it is No Good.
- (4) AM SD voltage writing
- 1. Enter the test mode.
- 2. While holding the preset "1" key depressed, press and hold the preset "6" key to write the SD voltage data.
- (5) Forced Auto / Manual switching of K2I
- 1. Press and hold the TI key in the tuner mode to switch between AUTO and MANUAL.
- 2. The initial status is MANUAL, which is indicated by the lighting of the TI dots.
- (6) Forced Narrow/Wide switching of K2I
- 1. Press the preset "6" key in the tuner mode to switch between Forced Narrow and Wide.
- 2. The initial status is Wide, which is indicated by the lighting of the NEWS dots.
- (7) MD test mode
- 1. Track jumps to the following tracks in order from left by track-up key pressed. No.7, No.2, No.13, No.23, No.30, No.34, No.7(Returns to the start position).
- 2. Track down key will be one step down than currntly playing track No.
- 3. When pressing preset "1" key, the track jumps to track No.28. When pressing preset "1" key again, the track jumps to track No.22.
- (8) Audio adjustments
- 1. The volume should be set to -10 dB (displayed as "30").
- 2. The bass/treble and balance/fader controls are set to full boost/full cut and full front/full rear respectively by single press of the UP/DOWN key.
- 3. The high-pass filter is set to Through/100Hz/200Hz by each press of the UP key, or to 200Hz/100Hz/Through by each press of the DOWN key.
- 4. Other adjustments are identical to normal operations.
- (9) Back-up current measurement
- 1. When the unit is reset while ACC is off (When the back-up power is on) or when ACC is turned off in the middle of test mode, the MUTE pin turns ON in 2 seconds instead of 15 seconds. (The panel/CD/MD mechanism is not activated at this time.)

TEST MODE

- (10) Simplified security code clear procedure (KMD-X92 only)
 1. During the code request mode, while holding the "DISP" key depressed, press and hold the volume "UP" key for 3 seconds (so that "----" disappears).
- 2. Enter "KCAR" from the remote control unit.

Press numeric key "5" 2 times and press the track "UP" key (to enter "K").

Press numeric key "2" 3 times and press the track "UP" key (to enter "C").

Press numeric key "2" 1 time and press the track "UP" key (to enter "A"). Press numeric key "7" 2 times and press the track "UP" key (to enter "R").

3. The security is canceled and the set enters the tuner mode.

(11) MASK key writing procedure (When the EEPROM is in the initial status)

- 1. While holding the "FM" and preset "6" keys depressed, press "RESET" to enter the test mode.
- 2. Press and hold the "AUDIO" key for 1 second to enter the menu mode.
- 3. Press the "FM" or "AM" key to select "Mask key".
- 4. Press the track "UP/DOWN" key shortly so that "TRANSMIT1" is displayed.
- 5. Point the MASK key to the light sensor and press and hold the key for more than 0.5 second.
- 6. When "TRANSMIT2" is displayed, press and hold the MASK key again for more than 0.5 second. Note that the first and second counter codes are not compared at this time.
- 7. The writing operation is completed when "APPROVED" is displayed.
 - At this time, the demonstration mode is set and the test mode is canceled.
 - (Note) Leaving the unit for more than 30 minutes without writing the code causes an error and turns power off.
- (12) Procedure for canceling the MASK key request (when the unit is reset or the back-up power is turned off while the MASK key is enabled)
- 1. When the power is supplied and the unit is switched on, "TRANSMIT1" is displayed and the MASK key request mode starts.
- 2. Point the MASK key toward the light sensor and press and hold for more than 3 seconds (until the level indicator indicates the full condition).
- 3. When "TRANSMIT2" is displayed, press and hold the MASK key again for more than 3 seconds. If "TRANSMIT1" is displayed now, go back to step "2" and restart from there again.
- 4. When "APPROVED" is displayed, the MASK key is enabled and the set is turned on.

(13) Procedure for MASK key initialization

- 1. While holding the "FM" and preset "6" keys, press "RESET" to enter the test mode.
- 2. "TRANSMIT1" is displayed and the MASK key request mode starts. At this time, the display shows "* *" in place of "[]".
- 3. Press the MASK key canceling remote control for more than 3 seconds.
- 4. When "TRANSMIT2" is displayed, press and hold the MASK key again for more than 3 seconds.
- 5. When "APPROVED" is displayed, the MASK key is canceled, the demonstration mode is set, the test mode is canceled.

(14) MASK key all-clear procedure

- 1. While holding the "FM" and preset "6" keys, press "RESET" to enter the test mode.
- 2. Press and hold the "AUDIO" key for more than 1 second to enter the menu mode.
- 3. Press the Track "UP/DOWN" key to select "Mask key".

TEST MODE

- 4. Press and hold the "FM" or "AM" key for more than 2 seconds so that "TRANSMIT1" is displayed.
- 5. Point the MASK key canceling remote control toward the light sensor and press for more than 3 seconds (until the level indicator indicates the full condition).
- 6. When "TRANSMIT2" is displayed, press and hold the MASK key again for more than 3 seconds. If "TRANSMIT1" is displayed now, go back to step "5" and restart from there again.
- 7. When "APPROVED" is displayed, the EEPROM is cleared entirely and the condition in "(11) MASK key writing procedure (when the EEPROM is in the initial status)" returns.

ADJUSTMENT (KMD-PS971R only)

Item:

Separation

Input Setting:

98.1MHz / 1KHz, ±40KHz dev / Pilot: ±6.0KHz dev / Selector: L or R / 60dBμ(ANT input)

Output Setting:

Connect a AC voltmeter to speaker output (J1 of X25)

Receiver setting:

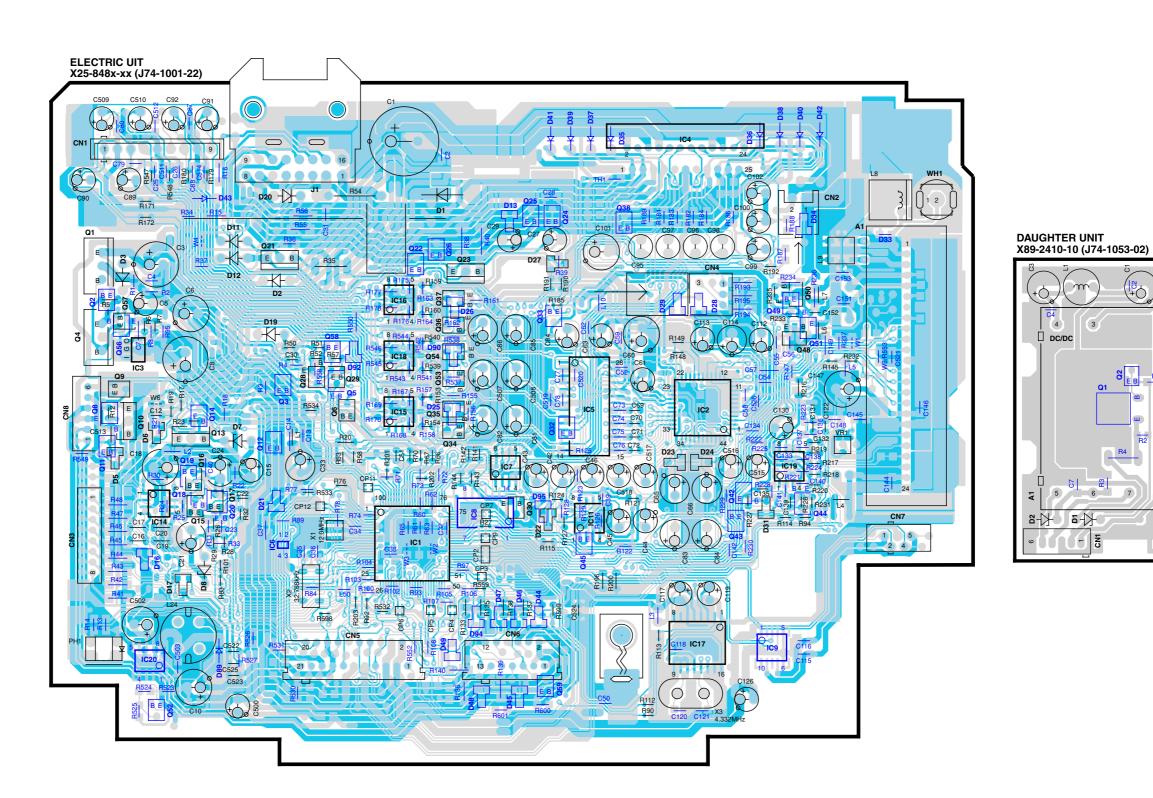
FM98.1MHz / Forced narrow of the test mode (It is shown on previous pages)

Alignment Point:

VR1 of X25

Align for:

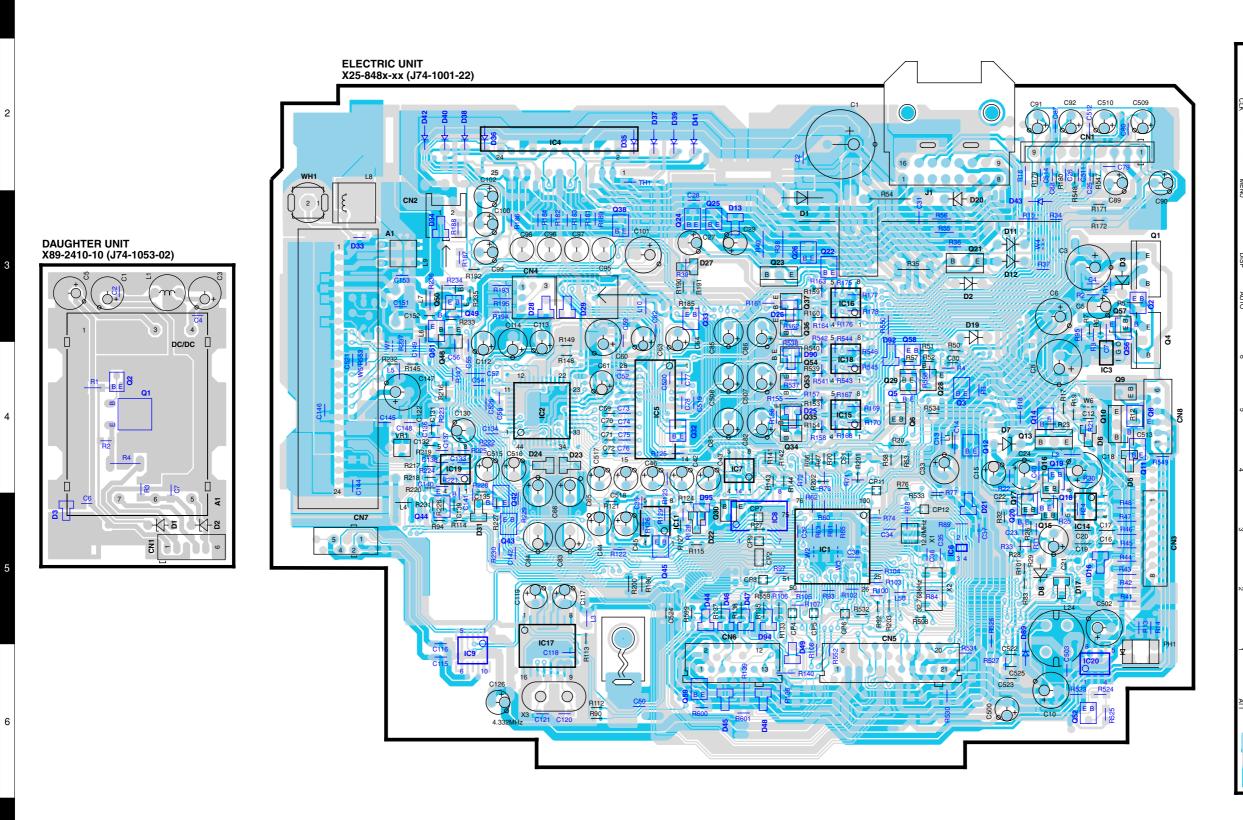
Adjust so that the crosstalk from Lch to Rch and Rch to Lch becomes minimum.

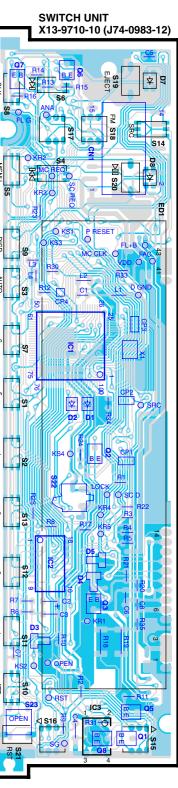


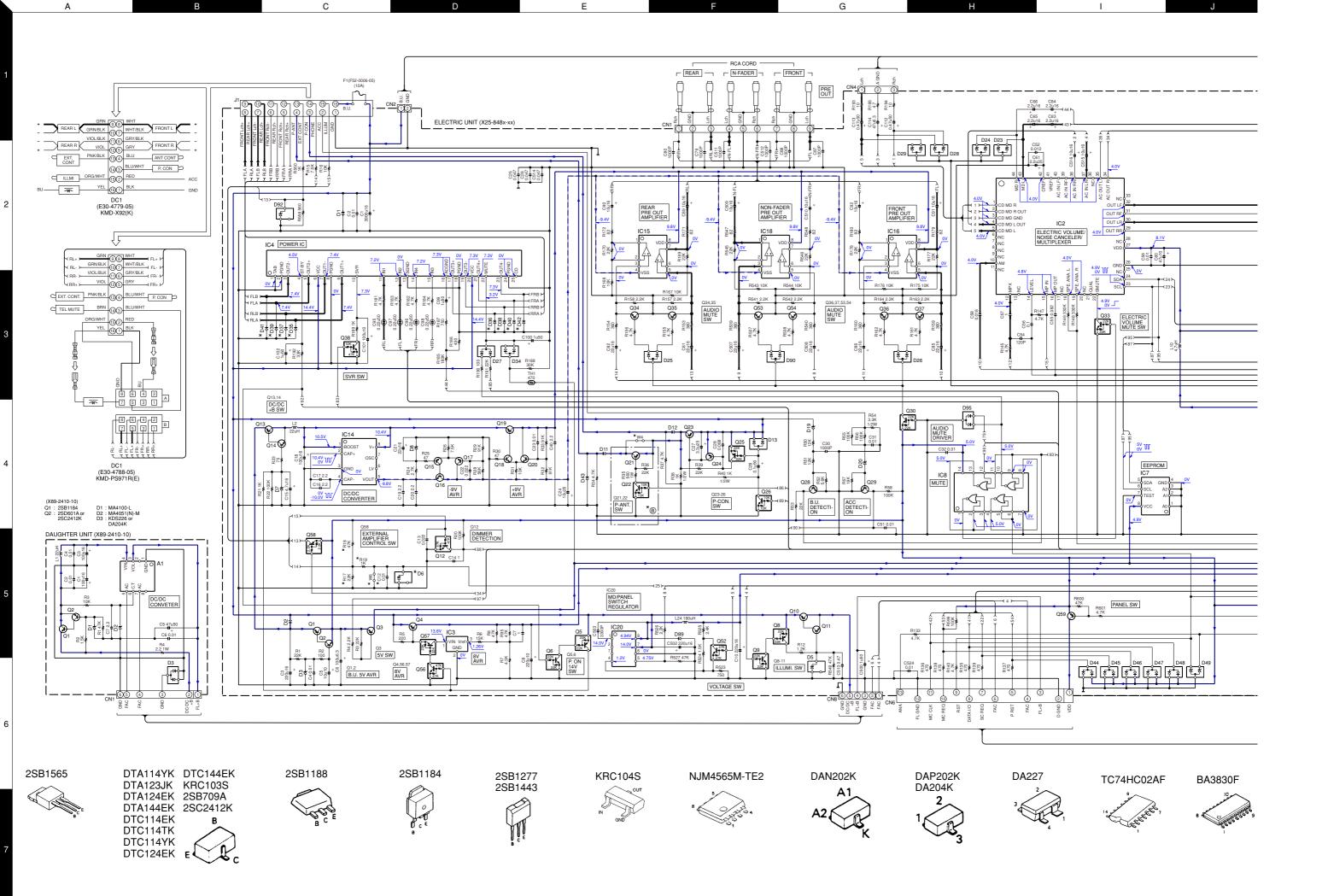
10

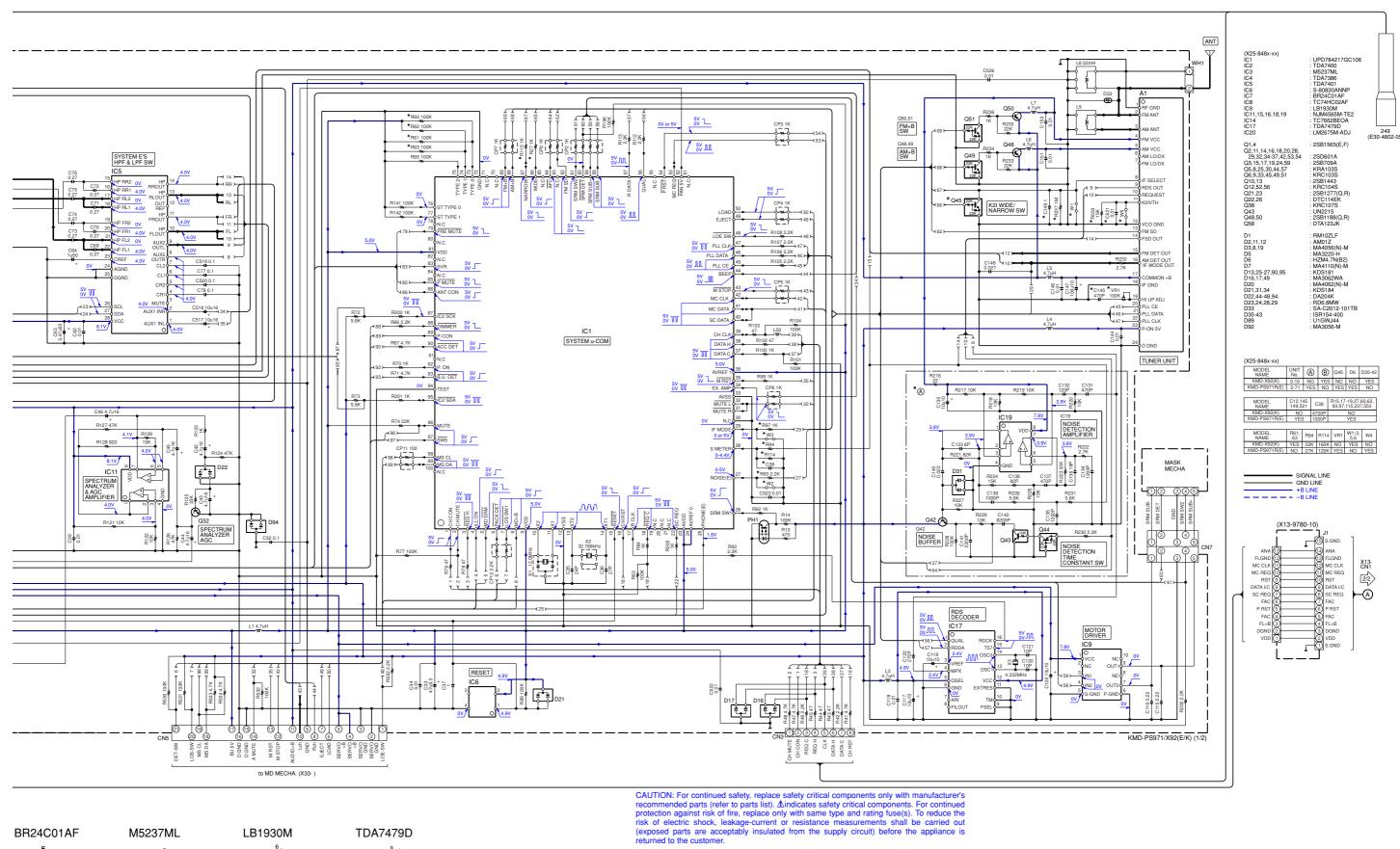
DC/DC

PC BOARD(Foil side view)







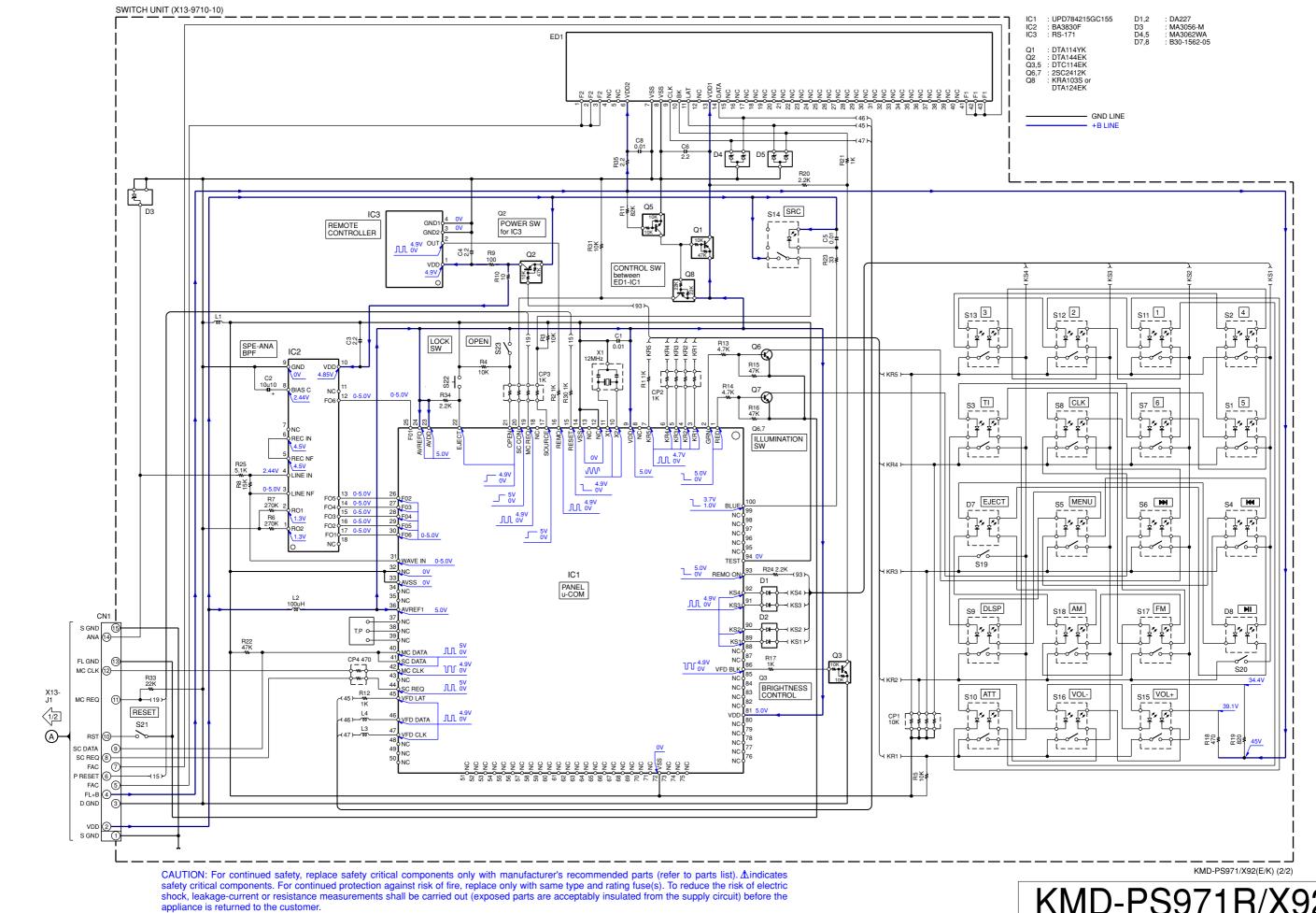


0

Q



KMD-PS971R/X92



AA

U

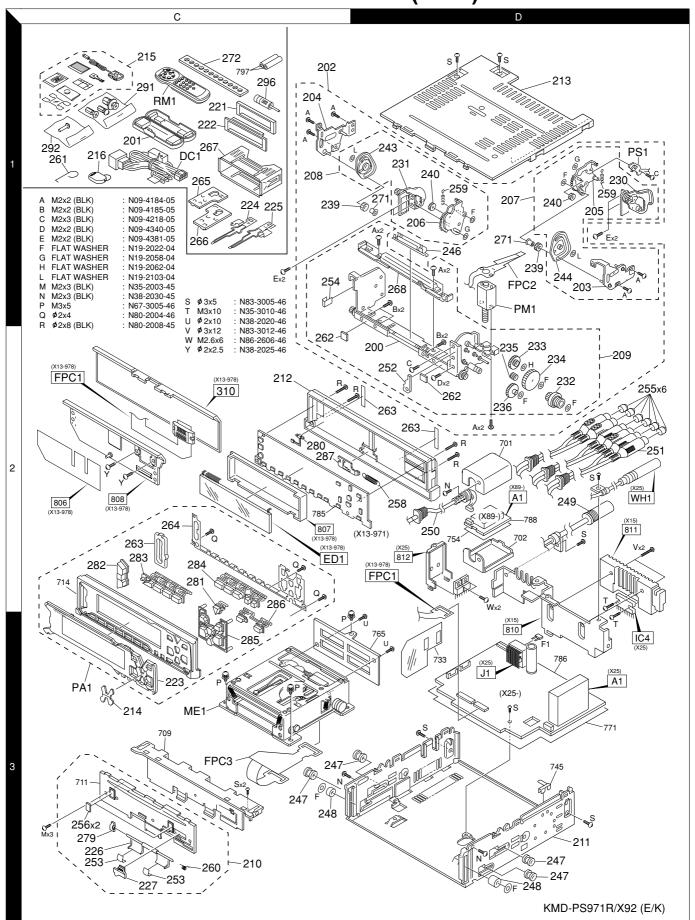
W

KMD-PS971R/X92

AC

KENWOOD

EXPLODED VIEW (UNIT)



PARTS LIST

* New Parts

Parts without Part No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Teile ohne Parts No. werden nicht geliefert.

	Α	N	werden nicht gelief			ì		Α	N			T
Ref. No.	d d	e W	Parts No.	Description	Desti- nation		Ref. No.	d d	e W	Parts No.	Description	Desti- nation
			KMD-F	PS971R/X92			247 248	3D 3D		D14-0723-04 D14-0716-14	ROLLER ROLLER	
200	2D	*	A10-4536-13	CHASSIS CALKING ASSY								
201 202	1C 1C 1D	*	A02-1489-03 A10-4671-02 A10-4315-04	PLASTIC CABINET ASSY CHASSIS ASSY CHASSIS CALKING ASSY			249 250 251	2D 2D 2D		E30-4802-05 E30-4706-05 E30-4796-05	CORD WITH DIN CONNECTOR CORD WITH CONNECTOR CORD WITH PINPLUG	
204	1C		A10-4317-04	CHASSIS CALKING ASSY		Λ	DC1 DC1	1C 1C		E30-4779-05 E30-4788-05	DC CORD DC CORD	K E1
205 206	1D 1D		A10-4319-04 A10-4321-04	CHASSIS CALKING ASSY CHASSIS CALKING ASSY			252	2D		F09-1644-04	SHEET	
207	1D	-	A10-4674-02	CHASSIS ASSY			253	3C		F09-1292-04	SHEET	
	1C	*	A10-4676-02	CHASSIS ASSY			254	1C		F09-1244-04	SHEET	
209	2D		A10-4534-23	CHASSIS ASSY		 	255 F1	2D 2D		F29-0049-05 F52-0006-05	INSULATING COVER FUSE (MINI BLADE TYPE) (10A)	
210	3C		A22-2298-43	SUB PANEL ASSY		4	1' '	20		32 0000 03	TOOL (WINN BEABLITTE) (TOA)	
211	3D	*	A10-4665-03	CHASSIS ASSY	E1	Δ	F1	2D		F52-0011-05	FUSE (MINI BLADE TYPE) (10A)	
	3D	*	A10-4666-03	CHASSIS ASSY	K							
	2C		A46-1652-01	REAR COVER			256	3C		G11-1797-04	CUSHION	
213	1D		A52-0742-12	TOP PLATE			258	2D	*	G01-2984-04	EXTENSION SPRING	
214	3C		A21-4011-03	DRESSING PANEL			259 260	1D 3C		G01-2818-24 G01-2920-14	EXTENSION SPRING TORSION COIL SPRING	
-14	30	•	A21-4011-03	REMOTE CONTROLLER ASSY (RC-700)	F1		261	1C		G01-2924-04	TORSION COIL SPRING	
216	1C		A70-0886-15	REMOTE CONTROLLER ASSY (MASK)	E1					0.0 . 202 . 0 .		
PA1	3C	*	A64-1877-02	PANEL ASSY	K		262	2D		G11-1850-04	CUSHION	
PA1	3C	*	A64-1878-02	PANEL ASSY	E1		263	2C	*	G11-1876-04	CUSHION	
RM1	1C		A70-0894-05	REMOTE CONTROLLER ASSY	K		-			H10-4702-02 H10-4703-02	POLYSTYRENE FOAMED FIXTURE POLYSTYRENE FOAMED FIXTURE	
	1C		B07-2146-03	ESCUTCHEON ASSY (EBONY)			-			H21-1123-04	PROTECTION SHEET	
	1C		B07-2183-02	ESCUTCHEON (BLACK)	K		-			H25-0329-04	PROTECTION BAG (280X450X0.03)	K
223 223	3C 3C		B10-3147-01	FRONT GLASS	K E1		-			H25-0337-04	PROTECTION BAG (180X300X0.03)	
	30		B10-3148-01 B46-0100-50	FRONT GLASS WARRANTY CARD	E1		-			H25-1108-04 H25-1111-04	PROTECTION BAG (100X300X0.03) PROTECTION BAG (280X450X0.03)	E1
.			B46-0606-04	ID CARD	K		_		*	H54-1660-03	ITEM CARTON CASE (KMD-X92)	K
.			B46-0631-03	USER CARD	K		-			H54-1661-03	ITEM CARTON CASE (KMD-PS971R)	
.			B46-0632-04	ID CARD (MASK-KEY)	E1						,	
			B58-1278-04	CAUTION CARD (INSTAL)			264	2C	*	J19-4979-02	HOLDER	l.,
			B58-1309-04	CAUTION CARD (INSTAL)	E1		265 266	1C 1C		J19-4875-04	BRACKET (R)	K K
.			B59-0742-00	SUB-INSTRUCTION MANUAL	E1		266	1C		J19-4876-04 J21-9491-03	BRACKET (L) MOUNTING HARDWARE ASSY	l N
			B64-1618-00	INST. MANUAL (ENG,FRE,SPA)	K		268	1D	*	J21-9344-03	MOUNTING HARDWARE	
		*	B64-1619-00 B64-1620-00	INST. MANUAL (ENGLISH) INST. MANUAL (FRE,GER,DUT)	E1 E1		271	1D		J31-1035-24	COLLAR	
.			B64-1621-00	INST. MANUAL (ITA,SPA,POR)	E1		272	1C		J54-0606-04	STAY	K
		•					279		*	J90-0923-14	GUIDE	
224	1C		D10-4301-14	LEVER (R)			FPC2	1D		J84-0062-23	FLEXIBLE PRINTED WIRING BOARD	
225	1C		D10-4302-14	LEVER (L)			FPC3	3C		J84-0090-03	FLEXIBLE PRINTED WIRING BOARD	
	3C 3C		D10-4299-03 D10-4300-24	ARM LEVER			280	2C		K24-3540-03	KNOB	
230	1D	*	D10-4300-24	ARM ASSY			281	2C		K24-3541-04	KNOB (SRC)	
		*	210 1110 00	7.11.11.7.661			282	2C		K25-1095-03	KNOB (VOL UP/DOWN)	
231	1D	*	D10-4449-04	ARM ASSY			283	2C	*	K25-1096-03	KNOB (1/2/3)	
232	2D		D13-1302-64	GEAR ASSY			284	2C	*	K25-1097-03	KNOB (4/5/6)	
	2D		D13-1306-24	GEAR			005		١.	1/05 1000 00	IANOR (EMANURTY) E IFOT)	
234 235	2D 2D	*	D13-1403-03 D13-1404-04	GEAR GEAR			285 286	3C 2C		K25-1098-03 K25-1099-03	KNOB (FM/AM/PTY/EJECT) KNOB (AUD/CLK)	
			2.01.0101				287	2C		K29-7010-04	KNOB ASSY	
236	2D		D13-1453-14	GEAR ASSY								
239	1D		D13-1312-34	GEAR			291	1C		N99-1652-05	SCREW SET (JAPANESE CAR)	K
240	1D		D13-1313-04	GEAR ACCY			292	1C	*	N99-1683-05	SCREW SET (DISPLAY STAND)	
	1D		D13-1456-13	GEAR ASSY			Α	1D		N09-4184-05	MACHINE SCREW (M2X2)	
243	ו חוו		11112 1766 12			l	I D	10		NING 110E NE		
243 244	1D		D13-1455-13	GEAR ASSY			B C	1D 1D		N09-4185-05 N09-4218-05	MACHINE SCREW (M2X2) MACHINE SCREW (M2X3)	

E1: KMD-PS971R

PARTS LIST

* New Parts

Parts without Part No. are not supplied.

Les articles non mentionnes dans le **Parts No.** ne sont pas fournis. Teile ohne **Parts No.** werden nicht geliefert.

Teile ohne			. werden nicht gelief	fert.				1			
Def Ne	A	N	Doute No.			_		Desti-			
Ref. No.	d d	e w	Parts No.	, u	escriptio	n		nation			
D	2D	*	N09-4340-05	MACHINE SCF	REW						
E	1D	*	N09-4381-05		MACHINE SCREW (M2X2)						
F	2D		N19-2022-04		FLAT WASHER ` ´						
G	2D		N19-2058-04		FLAT WASHER						
Н	2D		N19-2062-04	FLAT WASHER	3						
L	1D		N19-2103-04	FLAT WASHER							
M	3C		N35-2003-45	BINDING HEAD							
N P	3C 3C		N38-2030-45 N67-3005-46	PAN HEAD MA							
Q	2C		N80-2004-46	PAN HEAD TA			I				
R	2D		N80-2008-45	PAN HEAD TA	DTITE OC	,DE//	ı				
S	1D		N83-3005-46	PAN HEAD TA							
Ü	3D		N38-2020-46	PAN HEAD MA							
PS1	1D	*	S68-0829-05	PUSH SWITCH	1						
296	1C		T90-0523-05	ANTENNA ADA	APTOR			E1			
296	1C		T90-0523-05	ANTENNA ADA	-			E1			
PM1	1D		T42-0752-34	MOTOR ASSY	-						
ME1	3С	*	X92-3580-00	MECHANISM A	ASSY						
			SWITCH UN	IT (X13-97	10-10)						
D7 ,8		*	B30-1562-05	LED							
C1			CK73FB1H103K	CHIP C	0.010U	F	K				
02			C92-0628-05	CHIP-TAN	10UF		10WV				
C3 ,4			CK73EB1C225K	CHIP C	2.2UF		K				
C5			CK73FB1H103K	CHIP C	0.010U	F	K				
C6			CK73EB1C225K	CHIP C	2.2UF		K				
C8			CK73FB1H103K	CHIP C	0.010U	F	K				
CN1		*	E59-0833-05	RECTANGULA	R PLUG						
L1			L92-0302-05	CHIP FERRITE							
L2			L40-1015-34	SMALL FIXED			00UH)				
L3 ,4 X1			L33-0385-05 L78-0683-05	SMALL FIXED RESONATOR		ΣH					
CP1			R90-0714-05	MULTI-COMP	10K X4						
CP2 ,3			R90-0724-05	MULTI-COMP							
CP4			R90-1022-05	MULTI-COMP							
2, 1			RK73FB2A102J	CHIP R	1.0K	J	1/10W				
R3 -5			RK73FB2A103J	CHIP R	10K	J	1/10W				
R6 ,7			RK73FB2A274J	CHIP R	270K	J	1/10W				
R8			RK73FB2A153J	CHIP R	15K	J	1/10W				
R9			RK73FB2A101J	CHIP R	100	J	1/10W				
R10			RK73FB2A100J	CHIP R	10	J	1/10W				
R11			RK73FB2A823J	CHIP R	82K	J	1/10W				
R12			RK73FB2A102J	CHIP R	1.0K	J	1/10W				
R13 ,14			RK73FB2A472J	CHIP R	4.7K	J	1/10W				
R15 ,16 R17			RK73FB2A473J RK73FB2A102J	CHIP R CHIP R	47K 1.0K	J	1/10W 1/10W				
R18			R92-1215-05	CHIP R	470	J	1/10W 1/2W				
R19			R92-2023-05	CHIP R	820	J	1/2W				
R20			RK73FB2A222J	CHIP R	2.2K	Ĵ	1/10W				
R21			RK73FB2A102J	CHIP R	1.0K	J	1/10W				
R22			RK73FB2A473J	CHIP R	47K	J	1/10W				
R23			RK73EB2B330J	CHIP R	33	J	1/8W				

(X13-9710-10)

			(X13-9710-10)	(X13-9710-10)					
Ref. No.	A d d	N e w	Parts No.	De	scriptio	n		Desti- nation	
R24	_	-	RK73FB2A222J	CHIP R	2.2K	J	1/10W		
R25			RK73FB2A512J	CHIP R	5.1K	J	1/10W		
R30			RK73FB2A102J	CHIP R	1.0K	J	1/10W		
R31			RK73FB2A103J	CHIP R	10K	J	1/10W		
R33			RK73FB2A223J	CHIP R	22K	J	1/10W		
R34			RK73FB2A222J	CHIP R	2.2K	J			
R35			RK73FB2A2R2J	CHIP R	2.2	J	1/10W		
S1 -13			S70-0856-05	TACT SWITCH					
S14			S70-0857-05 S70-0860-05	TACT SWITCH					
S15 -18 S19 -21			S70-0851-05	TACT SWITCH					
S22			S68-0822-05	PUSH SWITCH					
S23		*	S70-0864-05	TACT SWITCH					
D1 ,2			DA227	DIODE					
D3			MA3056-M	ZENER DIODE					
D4 ,5			MA3062WA	ZENER DIODE					
ED1 IC1	2C		CN1914M UPD784215GC155	FLUORESCENT	INDICA	TOR	TUBE		
IC2 IC3			BA3830F RS-171	ANALOGUE IC					
Q1			DTA114YK	DIGITAL TRANS	PICTOR				
Q1			UN2114	DIGITAL TRANS					
Q2			DTA144EK	DIGITAL TRANS					
Q2			UN2113	DIGITAL TRANS	SISTOR				
Q3			DTC114EK	DIGITAL TRANS					
Q3			UN2211	DIGITAL TRANS					
Q5			DTC114EK	DIGITAL TRANS					
Q5			UN2211	DIGITAL TRANS	SISTOR				
Q6 ,7			2SC2412K	TRANSISTOR					
Q6 ,7			2SD601A	TRANSISTOR					
Q8			DTA124EK	DIGITAL TRANS					
Q8 Q8			KRA103S UN2112	DIGITAL TRANS					
		SI	JB-CIRCUIT	UNIT (X13-	9780-	10)			
310	2C	*	B03-3056-12	DRESSING PLA		,			
J1			E58-0895-05	RECTANGULAR	R RECEF	TAC	LE		
FPC1	2C		J84-0106-02	FLEXIBLE PRIN					
-							-		
Υ	2C		N38-2025-46	PAN HEAD MAC					
0.1			ELECTRIC UI				10	I	
C1			C90-2822-05	ELECTRO	3900UF		16WV		
C2			CK73FB1H103K	CHIP C	0.010U		16M//		
C3 C4			C90-2926-05 CK73FB1H103K	CHIP C	220UF 0.010U		16WV K		
C5			C90-2594-05	ELECTRO	10UF	•	10WV		
C6			CE04CW0J101M	ELECTRO	100UF		6.3WV		
C7			CK73EB1C105K	CHIP C	1.0UF		K		
C8			CE04CW1A221M	ELECTRO	220UF		10WV		
C10			C90-2980-05	ELECTRO	220UF		16WV		
C12			CK73FB1H103K	CHIP C	0.010U	F	K	E1	
C13			CK73FB1H223K	CHIP C	0.022U	F	K		
0.0									

C14 E1: KMD-PS971R

PARTS LIST

* New Parts

Parts without Part No. are not supplied.

Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.

			itionnes dans le Pari werden nicht gelief		as fournis.							(X25-848x-xx)				
Ref. No.	A d d	N e w	Parts No.		Description		Desti- nation		Ref. No.	A d d	N e w	Parts No.	ī	Description		Desti- nation
C15 C16 ,17 C18 C19 ,20 C21	u	v	C90-2595-05 CK73EB1C225K C90-2962-05 CK73EB1C225K CE04DW1C220M	ELECTRO CHIP C ELECTRO CHIP C ELECTRO	4.7UF 2.2UF 100UF 2.2UF 22UF	16WV K 16WV K 16WV			C117 C118 C119 C120,121 C122	u	W	C90-2594-05 CK73FB1H103K C90-2594-05 CC73FCH1H100D CC73FCH1H271J	ELECTRO CHIP C ELECTRO CHIP C CHIP C	10UF 0.010UF 10UF 10PF 270PF	10WV K 10WV D J	
C22 C23 C24 C25 ,26 C27			CK73FB1H223K CK73FB1H103K CE04CW1E100M CK73FB1E473K C90-2598-05	CHIP C CHIP C ELECTRO CHIP C ELECTRO	0.022UF 0.010UF 10UF 0.047UF 3.3UF	K K 25WV K 25WV			C126 C130 C131 C132 C133			C90-2594-05 C90-2594-05 CC73FCH1H471J CC73FCH1H121J CC73FCH1H060D	ELECTRO ELECTRO CHIP C CHIP C	10UF 10UF 470PF 120PF 6.0PF	10WV 10WV J J D	E1 E1 E1 E1
C28 C29 C30 C31 ,32 C33			CK73FB1E683K C90-2602-05 CK73FB1H102K CK73FB1H103K CE04CW0J470M	CHIP C ELECTRO CHIP C CHIP C ELECTRO	0.068UF 0.10UF 1000PF 0.010UF 47UF	K 50WV K K 6.3WV			C134,135 C136 C137 C138 C139			CC73FSL1H122J CC73FCH1H180J CC73FCH1H471J CC73FCH1H820J CC73FSL1H102J	CHIP C CHIP C CHIP C CHIP C CHIP C	1200PF 18PF 470PF 82PF 1000PF	J J J	E1 E1 E1 E1 E1
C34 C35 C36 C37 C38				CHIP C CHIP C CHIP C CHIP C CHIP C	0.010UF 24PF 27PF 1.0UF 1000PF	K J K K	E1		C140 C141 C142 C144 C145			CK73FB1H223K CC73FSL1H222J CK73FB1H822K CK73FB1H103K CC73FCH1H471J	CHIP C CHIP C CHIP C CHIP C CHIP C	0.022UF 2200PF 8200PF 0.010UF 470PF	K K K J	E1 E1 E1
C38 C39 C40 C42 -46 C50			CK73FB1H472K CK73FB1H103K CK73EB1C225K C90-2595-05 CK73FB1C104K	CHIP C CHIP C CHIP C ELECTRO CHIP C	4700PF 0.010UF 2.2UF 4.7UF 0.10UF	K K K 16WV K	K		C146 C147 C148 C149 C151			CK73FB1H103K CE04NW1A101M CK73FB1E273K CK73EB1C105K CK73FB1H103K	CHIP C ELECTRO CHIP C CHIP C CHIP C	0.010UF 100UF 0.027UF 1.0UF 0.010UF	K 10WV K K K	E1
C51 C52 C54 C55 C56			CK73FB1H103K C93-1054-05 CC73FCH1H121J CK73FB1C823K CK73FB1C104K	CHIP C CHIP C CHIP C CHIP C CHIP C	0.010UF 0.012UF 120PF 0.082UF 0.10UF	K K J K K			C153 C500 C502 C503 C507,508			CK73FB1H103K C90-2608-05 C90-2980-05 CK73FB1H332K CE04CW1C220M	CHIP C ELECTRO ELECTRO CHIP C ELECTRO	0.010UF 1.0UF 220UF 3300PF 22UF	K 50WV 16WV K 16WV	
C57 C58 C59 C60 C61			CK73EB1C105K CK73FB1H183K CK73FB1H103K CE04CW1A470M C90-2600-05	CHIP C CHIP C CHIP C ELECTRO ELECTRO	1.0UF 0.018UF 0.010UF 47UF 2.2UF	K K K 10WV 35WV			C509,510 C511,512 C513 C514 C515-518			C90-2597-05 CC73FSL1H102J CK73EB1C474K CK73FB1E473K C90-2597-05	ELECTRO CHIP C CHIP C CHIP C ELECTRO	10UF 1000PF 0.47UF 0.047UF 10UF	16WV J K K 16WV	
C62 C63 C64 C65 ,66 C69 -76			CK73FB1H103K C90-2606-05 C90-2608-05 C90-2533-05 CK73FB1C274K	CHIP C ELECTRO ELECTRO ELECTRO CHIP C	0.010UF 0.47UF 1.0UF 2.2UF 0.27UF	K 50WV 50WV 16WV K			C519,520 C521 C522-524 C526			CK73FB1C104K CK73FB1H103K CK73FB1H103K CK73FB1H103K	CHIP C CHIP C CHIP C CHIP C	0.10UF 0.010UF 0.010UF 0.010UF	K K K	E1
C77 ,78 C79 ,80 C81 ,82 C83 ,84 C85 ,86			CE04CW1C220M C90-2533-05	CHIP C CHIP C ELECTRO ELECTRO ELECTRO	0.10UF 1000PF 22UF 2.2UF 22UF	K J 16WV 16WV 16WV			CN1 CN2 CN3 CN4 CN5			E40-5066-05 E40-3299-05 E40-3252-05 E40-3261-05 E40-9287-05	PIN ASSY PIN ASSY PIN ASSY PIN ASSY PIN ASSY			
C87 ,88 C89 -92 C95 -98 C99 C100			CC73FSL1H102J C90-2597-05 C90-5296-05 C90-2935-05 C90-2608-05	CHIP C ELECTRO NP-ELECT ELECTRO ELECTRO	1000PF 10UF 0.22UF 1.0UF 1.0UF	J 16WV 50WV 50WV 50WV		<u>^</u>	CN6 CN7 CN8 J1 WH1	3D 2D		E40-9557-05 E40-5029-05 E40-3250-05 E58-0836-05 E30-4440-05	FLAT CABLE C FLAT CABLE C PIN ASSY RECTANGULA CORD WITH PI	ONNECTOR R RECEPTAC	CLE	
C101 C102 C112,113 C114 C115,116			C90-2608-05 C90-2606-05	ELECTRO ELECTRO ELECTRO ELECTRO CHIP C	100UF 1.0UF 0.47UF 47UF 0.22UF	10WV 50WV 50WV 6.3WV K			WH1 L1 L2 L3 -7 L8	2D	*	E30-4804-05 L40-4795-34 L40-2205-34 L40-4795-34 L33-1039-05	CORD WITH PI SMALL FIXED I SMALL FIXED I LINE FILTER C	INDUCTOR (4 INDUCTOR (2 INDUCTOR (4	2UH)	

E1: KMD-PS971R

PARTS LIST

* New Parts

Parts without Part No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

			ntionnes dans le Par 1. werden nicht gelief		o iodiiiio.							(X25-848x-xx)					
Ref. No.	A d d	N e w	Parts No.	D	escriptio	n		Desti- nation	Ref. No.	A d d	N e w	Parts No.		Descripti	on		Desti- nation
L9			L39-1004-05	TRAP COIL					R43 -45			RK73EB2B470J	CHIP R	47	J	1/8W	
L10			L40-4795-34	SMALL FIXED I	NDLICTO	R (4 7	'UHI)		R46			RK73EB2B222J	CHIP R	2.2K	J	1/8W	
L24			L33-1121-05	CHOKE COIL (1			011)		R47 ,48			RK73EB2B472J	CHIP R	4.7K	Ĵ	1/8W	
L50			L92-0075-05	CHIP FERRITE	00011)				R50 ,51			RK73FB2A123J	CHIP R	12K	Ĵ	1/10W	
X1			L78-0683-05	RESONATOR (12.0MHZ))			R52			RK73FB2A562J	CHIP R	5.6K	J	1/10W	
X2		*	L77-2738-05	CRYSTAL RESC	ONATOR	(32.76	88KH7\		R53			RK73GB1J223J	CHIP R	22K	J	1/16W	
X3		-,-	L77-2002-05	CRYSTAL RES					R54			RD14DB2H332J	SMALL-RD	3.3K	J	1/2W	
٨٥			L11-2002-03	ON TOTAL RESI	JINATOR	(4.332	ZIVII 1Z)		R55 .56			RK73EB2B104J	CHIP R	100K	J	1/2VV 1/8W	
C	2D		N83-3005-46	PAN HEAD TAP	TITE CO	DEW			R57			RK73FB2A183J	CHIP R	18K	J	1/0W	
S T	2D		N35-3010-46	BINDING HEAD			DEW		R58				CHIP R	100K			
					-		HEVV		HOO			RK73GB1J104J	CHIP K	IUUN	J	1/16W	
V	2D		N83-3012-46	PAN HEAD TAP					D00			DI/TOFDO A 40 4 1	OLUB B	40016		4.44.00.44	_,
W	2D		N86-2606-46	BINDING HEAD	IAPIIIE	SCR	ΕW		R60			RK73FB2A104J	CHIP R	100K	J	1/10W	E1
									R61			RK73FB2A104J	CHIP R	100K	J	1/10W	K
CP2			R90-0724-05	MULTI-COMP	1K X4				R62			RK73FB2A104J	CHIP R	100K	J	1/10W	E1
CP3 -7			R90-0725-05	MULTI-COMP	1K X2				R63			RK73FB2A104J	CHIP R	100K	J	1/10W	K
CP9			R90-0725-05	MULTI-COMP	1K X2				R65			RK73FB2A104J	CHIP R	100K	J	1/10W	
CP11			R90-1019-05	MULTI-COMP	100 X2												
CP12			R90-1013-05	MULTI-COMP	2.2K X2	2			R66			RK73FB2A222J	CHIP R	2.2K	J	1/10W	
									R67			RK73GB1J472J	CHIP R	4.7K	Ĵ	1/16W	
R1			RK73FB2A223J	CHIP R	22K	J	1/10W		R70			RK73FB2A102J	CHIP R	1.0K	Ĵ	1/10W	
R2			RK73FB2A101J	CHIP R	100		1/10W		R71			RK73FB2A472J	CHIP R	4.7K	Ĵ	1/10W	
R3			RK73FB2A223J	CHIP R	22K		1/10W		R72 .73			RK73FB2A562J	CHIP R	5.6K	Ĵ	1/10W	
R4			RK73FB2A222J	CHIP R	2.2K		1/10W		1172,70			TINTOI BETTOOLO	011111111	0.01	Ü	1/1011	
R5			RK73EB2B221J	CHIP R	220	-	1/8W		R74			RK73FB2A223J	CHIP R	22K	J	1/10W	
ΠJ			INT SEDZDZZ IS	OHIF N	220	J	I/OVV		R76				CHIP R		J		
DC			DICZOEDOA4EOI	OLUD D	451/		4/4014/		-			RK73GB1J470J		47	-	1/16W	
R6			RK73FB2A153J	CHIP R	15K		1/10W		R77			RK73FB2A104J	CHIP R	100K	J	1/10W	
R7			R92-3032-05	CHIP R	4.3K	D	1/10W		R78			RK73FB2A470J	CHIP R	47	J	1/10W	
R8			R92-3052-05	METAL R	47K				R83			RK73GB1J104J	CHIP R	100K	J	1/16W	
R12			RK73FB2A122J	CHIP R	1.2K		1/10W		1								
R13			RK73FB2A471J	CHIP R	470	J	1/10W		R84			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
									R89			RK73FB2A104J	CHIP R	100K	J	1/10W	
R14			RK73FB2A104J	CHIP R	100K	J	1/10W		R90			RK73GB1J222J	CHIP R	2.2K	J	1/16W	
R15			RK73EB2B752J	CHIP R	7.5K	J	1/8W	E1	R92			RK73GB1J102J	CHIP R	1.0K	J	1/16W	
R16			RK73EB2B103J	CHIP R	10K	J	1/8W		R93			RK73FB2A222J	CHIP R	2.2K	J	1/10W	E1
R17			RK73GB1J223J	CHIP R	22K	J	1/16W	E1									
R18			RK73FB2A473J	CHIP R	47K	J	1/10W	E1	R94			RK73FB2A223J	CHIP R	22K	J	1/10W	K
									R94			RK73FB2A273J	CHIP R	27K	J	1/10W	E1
R19			RK73GB1J102J	CHIP R	1.0K	J	1/16W	E1	R95			R92-3052-05	METAL R	47K			
R20			RK73EB2B104J	CHIP R	100K		1/8W		R97			RK73FB2A102J	CHIP R	1.0K	J	1/10W	E1
R21			RK73FB2A102J	CHIP R	1.0K		1/10W		R99			RK73GB1J102J	CHIP R	1.0K	Ĵ	1/16W	
R22			RK73FB2A104J	CHIP R	100K		1/10W								-		
R23			RK73FB2A750J	CHIP R	75		1/10W		R100			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
0				J	. •	•	.,		R101			RK73GB1J104J	CHIP R	100K	Ĵ	1/16W	
R24			RK73FB2A272J	CHIP R	2.7K	J	1/10W		R102,103			RK73FB2A470J	CHIP R	47	J	1/10W	
R25			RK73FB2A470J	CHIP R	47		1/10W		R104			RK73FB2A104J	CHIP R	100K	J	1/10W	
R26			RK73FB2A752J	CHIP R	7.5K		1/10W		R105-108			RK73FB2A222J	CHIP R	2.2K	J	1/10W	
R27			RK73GB1J102J	CHIP R	1.0K			E1	11103-100			וווווטו טבאבבבט	J 11	۲.۲۱۱	J	1/1044	
R28			RK73FB2A563J	CHIP R	56K		1/10W	-'	B110 110			BK73CB1 1222 I	CHIP R	2.2K	1	1/16\\	
⊓ ∠0			LIVI DEDEMOGRA	OHIF N	JOI/	J	1/1000		R112,113			RK73GB1J222J			J	1/16W	_,
DOC			DIZZOEDO A CACA	OLUD D	0417	,	4/4011		R114			RK73FB2A124J	CHIP R	120K	J	1/10W	E1
R29			RK73FB2A913J	CHIP R	91K		1/10W		R114			RK73FB2A164J	CHIP R	160K	J	1/10W	K
R30			RK73FB2A470J	CHIP R	47		1/10W		R115			RK73FB2A102J	CHIP R	1.0K	J		E1
R31			RK73FB2A103J	CHIP R	10K		1/10W		R121,122			RK73FB2A103J	CHIP R	10K	J	1/10W	
R32 ,33			RK73FB2A913J	CHIP R	91K		1/10W							,			
R34			RK73FB2A472J	CHIP R	4.7K	J	1/10W		R123			RK73FB2A102J	CHIP R	1.0K	J	1/10W	
									R124			RK73GB1J473J	CHIP R	47K	J	1/16W	
R35			R92-0366-05	CHIP R	560		1W	K	R125			RK73FB2A333J	CHIP R	33K	J	1/10W	
R36			RK73FB2A223J	CHIP R	22K			K	R126,127			RK73FB2A473J	CHIP R	47K	J	1/10W	
R37			RK73FB2A472J	CHIP R	4.7K	J	1/10W		R128			RK73FB2A821J	CHIP R	820	J	1/10W	
R38			R92-0365-05	CHIP R	1.0K		1/2W										
R39			RK73FB2A223J	CHIP R	22K		1/10W		R129			RK73FB2A153J	CHIP R	15K	J	1/10W	
						-			R133			RK73EB2B472J	CHIP R	4.7K	Ĵ	1/8W	
R40			R92-0365-05	CHIP R	1.0K	J	1/2W		R135-139			RK73EB2B471J	CHIP R	470	J	1/8W	
R41			RK73EB2B472J	CHIP R	4.7K		1/2VV 1/8W		R140			RK73EB2B4713	CHIP R	4.7K	J	1/8W	
R42			RK73EB2B472J	CHIP R	4.7K 2.2K		1/8W		R141,142			RK73FB2A104J	CHIP R	100K	J	1/0W	
1174			ווווווטבטבבבט	OTHE TE	۲.۲۱	U	1/044	E4 . KMD		1		1 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	OIIII II	1001	J	1/1044	

E1: KMD-PS971R

PARTS LIST

* New Parts

Parts without Part No. are not supplied.

Les articles non mentionnes dans le **Parts No.** ne sont pas fournis. Teile ohne **Parts No.** werden nicht geliefert.

(X25-848x-xx)

Ref. No.	A d	N e	. werden nicht gelie Parts No.		Descripti	on		Desti-	Ref. No.	A d	N e	Parts No.	De	escript	tion		Des
	d	w						nation		d	w						natio
R145			RK73GB1J472J	CHIP R	4.7K	J	1/16W		R537,538			RK73FB2A472J	CHIP R	4.7K	J	1/10W	
R147			RK73FB2A472J	CHIP R	4.7K	J	1/10W		R539,540			RK73FB2A361J	CHIP R	360	J	1/10W	
148.149			RK73GB1J334J	CHIP R	330K	Ĵ	1/16W		R541,542			RK73FB2A222J		2.2K	Ĵ	1/10W	
153,154			RK73FB2A361J	CHIP R	360	Ĵ	1/10W		R543,544			RK73FB2A103J		10K	Ĵ	1/10W	
									1 '								
155,156			RK73FB2A472J	CHIP R	4.7K	J	1/10W		R545,546			RK73FB2A223J	CHIP R	22K	J	1/10W	
157,158			RK73FB2A222J	CHIP R	2.2K	J	1/10W		R547,548			RK73FB2A820J		82	J	1/10W	
159,160			RK73FB2A361J	CHIP R	360	J	1/10W		R549			RK73FB2A473J	CHIP R	47K	J	1/10W	
161,162			RK73FB2A472J	CHIP R	4.7K	J	1/10W		R550			RK73EB2B102J	CHIP R	1.0K	J	1/8W	
163,164			RK73FB2A222J	CHIP R	2.2K	Ĵ	1/10W		R552			RK73FB2A222J		2.2K	Ĵ	1/10W	
167,168			RK73FB2A103J	CHIP R	10K	J	1/10W		R553			RK73FB2A153J		15K	J	1/10W	E1
,																	
169,170			RK73FB2A223J	CHIP R	22K	J	1/10W		R558			RK73FB2A561J		560	J	1/10W	
171,172			RK73FB2A820J	CHIP R	82	J	1/10W		R599			RK73FB2A104J		100K	J	1/10W	
175,176			RK73FB2A103J	CHIP R	10K	J	1/10W		R600			RK73FB2A473J	CHIP R	47K	J	1/10W	
177,178			RK73FB2A223J	CHIP R	22K	J	1/10W		R601			RK73FB2A472J	CHIP R	4.7K	J	1/10W	
179,180			RK73FB2A820J	CHIP R	82	J	1/10W		VR1			R32-0229-05	SEMI FIXED VAF	RIABLE	RES	ISTOR	E1
181-184			RK73FB2A472J	CHIP R	4.7K	J	1/10W		W1 -3			R92-2052-05	CHIP R	0	J	1/10W	K
185			RK73GB1J184J	CHIP R	180K	J	1/16W		W4			R92-2052-05		0	-	1/10W	E1
						-							-		J		
186			RK73FB2A431J	CHIP R	430	J	1/10W		W5 ,6			R92-2052-05	CHIP R	0	J	1/10W	K
187 188			RK73FB2A751J RK73FB2A303J	CHIP R CHIP R	750 30K	J J	1/10W 1/10W		PH1			TOE 0221 0E	OPTO ISOLATOR				
100			HK/3FBZA3U3J	CHIP K	30K	J	1/1000		PHI			T95-0231-05	OPTO ISOLATOR	٦			
189			RK73FB2A102J	CHIP R	1.0K	J	1/10W		D1			RM10ZLF	DIODE				
190			RK73FB2A101J	CHIP R	100	Ĵ	1/10W		D2			AM01Z	DIODE				
			RK73FB2A223J	CHIP R		-	1/10W		D3								
191					22K	J						MA4056(N)-M	ZENER DIODE				
192			RK73GB1J333J	CHIP R	33K	J	1/16W		D5			MA3220-H	ZENER DIODE				
193,194			RK73EB2B100J	CHIP R	10	J	1/8W		D6			HZM4.7N(B2)	ZENER DIODE				E1
195			RK73EB2B4R7J	CHIP R	4.7	J	1/8W		D7			MA4110(N)-M	ZENER DIODE				
R196			RK73EB2B104J	CHIP R	100K	J	1/8W		D8			MA4056(N)-M	ZENER DIODE				
R200			RK73EB2B222J	CHIP R	2.2K	Ĵ	1/8W		D11 ,12			AM01Z	DIODE				
201-203 216			RK73GB1J102J RK73EB2B220J	CHIP R CHIP R	1.0K 22	J J	1/16W 1/8W	E1	D13 D13			DAP202K KDS181	DIODE DIODE				
						·											
217-220			RK73FB2A103J	CHIP R	10K	J	1/10W	E1	D13			MA152WA	DIODE				
221			RK73FB2A823J	CHIP R	82K	J	1/10W	E1	D16 .17			MA3062WA	ZENER DIODE				
222			RK73FB2A272J	CHIP R	2.7K	Ĵ	1/10W	E1	D19			MA4056(N)-M	ZENER DIODE				
223			RK73FB2A333J	CHIP R	33K	J	1/10W	E1	D20			MA4062(N)-M	ZENER DIODE				
224			RK73FB2A153J	CHIP R	15K	J	1/10W	E1	D20 D21			DAN202K	DIODE				
								_									
225			RK73FB2A103J	CHIP R	10K	J	1/10W	E1	D21			KDS184	DIODE				
226			RK73FB2A562J	CHIP R	5.6K	J	1/10W	E1	D21			MA152WK	DIODE				
227			RK73FB2A103J	CHIP R	10K	J	1/10W	E1	D22			DA204K	DIODE				
228			RK73FB2A104J	CHIP R	100K	Ĵ		E1	D22			KDS226	DIODE				
229			RK73FB2A103J	CHIP R	10K	Ĵ		E1	D23 ,24			RD6.8MW	ZENER DIODE				
220			DK70ED040001	CHID D	0.017		1/1014	_	D05 07			D V DOVOIX	חוסטב				
230		Ì	RK73FB2A222J	CHIP R	2.2K	J	1/10W	E1	D25 -27			DAP202K	DIODE				
231			RK73FB2A562J	CHIP R	5.6K	J	1/10W	E1	D25 -27			KDS181	DIODE				1
232			RK73GB1J272J	CHIP R	2.7K	J	1/16W		D25 -27			MA152WA	DIODE				1
233			RK73FB2A223J	CHIP R	22K	Ĵ	1/10W		D28 .29			RD6.8MW	ZENER DIODE				1
234			RK73EB2B102J	CHIP R	1.0K	Ĵ	1/8W		D31			DAN202K	DIODE				E1
235			DK73EB3A3331	CHIP R	22K	ı	1/10\\		D31			KDS184	DIODE				E1
			RK73FB2A223J			J	1/10W		I								
236		1	RK73EB2B102J	CHIP R	1.0K	J	1/8W		D31			MA152WK	DIODE				E1
237			RK73FB2A105J	CHIP R	1.0M	J	1/10W	E1	D33			SA-C2012-101TB	SURGE ABSORE	BER			
523		1	R92-3022-05	METAL R	750	D	1/10W		D34			DAN202K	DIODE				
524			R92-3026-05	METAL R	1.5K	_			D34			KDS184	DIODE				
525			R92-3029-05	METAL R	2.4K				D34			MA152WK	DIODE				
525							4/4014		-								
526			RK73FB2A222J	CHIP R	2.2K	J	1/10W		D35 -42			1SR154-400	DIODE				K
527			RK73FB2A473J	CHIP R	47K	J	1/10W		D43			1SR154-400	DIODE				
530-532		1	RK73FB2A104J	CHIP R	100K	J	1/10W		D44 -48			DA204K	DIODE				
533,534			RK73FB2A472J	CHIP R	4.7K	Ĵ	1/10W		D44 -48			KDS226	DIODE				

E1 : KMD-PS971R M: Other Areas

K : KMD-X92

E : Europe

K: North America

PARTS LIST

* New Parts

Parts without Part No. are not supplied.

Les articles non mentionnes dans le **Parts No.** ne sont pas fournis.

Teile ohne	Parts	No.	werden nicht geliefe	ert.					(X25-848x-xx)		
Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation	Ref. No.	A d d	N e w	Parts No.	Description	Desti- nation
D49			MA3062WA	ZENER DIODE		Q16			2SC2412K	TRANSISTOR	
089			U1GWJ44	DIODE		Q16			2SD601A	TRANSISTOR	
090			DAP202K	DIODE		Q17			2SB709A	TRANSISTOR	
D90			KDS181	DIODE		Q18			2SC2412K	TRANSISTOR	
D90			MA152WA	DIODE		Q18			2SD601A	TRANSISTOR	
092			MA3056-M	ZENER DIODE		Q19			2SB709A	TRANSISTOR	
094			DA204K	DIODE		Q20			2SC2412K	TRANSISTOR	
094 095			KDS226 DAP202K	DIODE DIODE		Q20 Q21			2SD601A 2SB1277(Q,R)	TRANSISTOR TRANSISTOR	K
095			KDS181	DIODE		Q22			DTC114EK	DIGITAL TRANSISTOR	K
D95 C1			MA152WA UPD784217GC106	DIODE MI-COM IC		Q22 Q23			UN2211 2SB1277(Q,R)	DIGITAL TRANSISTOR TRANSISTOR	K
C2			TDA7400	ANALOGUE IC		Q24			2SB709A	TRANSISTOR	
C3			M5237ML	IC(VOLTAGE REGULATOR)		Q25			DTA124EK	DIGITAL TRANSISTOR	
C4	3D		TDA7386	ANALOGUE IC		Q25			KRA103S	DIGITAL TRANSISTOR	
C5			TDA7401	ANALOGUE IC		Q25			UN2112	DIGITAL TRANSISTOR	
C6			S-80830ANNP	MOS-IC		Q26			DTC114EK	DIGITAL TRANSISTOR	
C7			BR24C01AF	MEMORY IC		Q26			UN2211	DIGITAL TRANSISTOR	
C7 C8			M24C01-WMN6T TC74HC02AF	MEMORY IC IC		Q28 ,29 Q28 ,29			2SC2412K 2SD601A	TRANSISTOR TRANSISTOR	
C9			LB1930M	ANALOGUE IC		Q30			DTA124EK	DIGITAL TRANSISTOR	
C11			NJM4565M-TE2	ANALOGUE IC		Q30			KRA103S	DIGITAL TRANSISTOR	
C14			TC7662BEOA	ANALOGUE IC		Q30			UN2112	DIGITAL TRANSISTOR	
C15,16			NJM4565M-TE2	ANALOGUE IC		Q32			2SC2412K	TRANSISTOR	
C17			TDA7479D	ANALOGUE IC		Q32			2SD601A	TRANSISTOR	
C18			NJM4565M-TE2	ANALOGUE IC		Q33			DTC124EK	DIGITAL TRANSISTOR	
C19			NJM4565M-TE2	ANALOGUE IC	E1	Q33			KRC103S	DIGITAL TRANSISTOR	
C20			LM2675M-ADJ	ANALOGUE IC		Q33			UN2212	DIGITAL TRANSISTOR	
Q1 Q2			2SB1565(E,F) 2SC2412K	TRANSISTOR TRANSISTOR		Q34 -37 Q34 -37			2SC2412K 2SD601A	TRANSISTOR TRANSISTOR	
Q2			2SD601A	TRANSISTOR		Q38			DTC114YK	DIGITAL TRANSISTOR	
23			2SB709A	TRANSISTOR		Q38		*	KRC107S	DIGITAL TRANSISTOR	
Q4			2SB1565(E,F)	TRANSISTOR		Q38		٠	UN2214	DIGITAL TRANSISTOR	
Q5			DTA124EK	DIGITAL TRANSISTOR		Q42			2SC2412K	TRANSISTOR	E1
Q 5			KRA103S	DIGITAL TRANSISTOR		Q42			2SD601A	TRANSISTOR	E1
25			UN2112	DIGITAL TRANSISTOR		Q43			DTC114TK	DIGITAL TRANSISTOR	E1
26			DTC124EK	DIGITAL TRANSISTOR		Q43			UN2215	DIGITAL TRANSISTOR	E1
26			KRC103S	DIGITAL TRANSISTOR		Q44			DTA124EK	DIGITAL TRANSISTOR	E1
26 28			UN2212 DTA124EK	DIGITAL TRANSISTOR DIGITAL TRANSISTOR		Q44 Q44			KRA103S UN2112	DIGITAL TRANSISTOR DIGITAL TRANSISTOR	E1 E1
Q8			KRA103S	DIGITAL TRANSISTOR		Q45			DTC124EK	DIGITAL TRANSISTOR	E1
28 28			UN2112	DIGITAL TRANSISTOR		Q45 Q45			KRC103S	DIGITAL TRANSISTOR	E1
29			DTC124EK	DIGITAL TRANSISTOR		Q45			UN2212	DIGITAL TRANSISTOR	E1
29			KRC103S	DIGITAL TRANSISTOR		Q48			2SB1188(Q,R)	TRANSISTOR	
29			UN2212	DIGITAL TRANSISTOR		Q49			DTC124EK	DIGITAL TRANSISTOR	
Q10			2SB1443	TRANSISTOR		Q49			KRC103S	DIGITAL TRANSISTOR	
211			2SC2412K	TRANSISTOR		Q49			UN2212	DIGITAL TRANSISTOR	
211			2SD601A	TRANSISTOR		Q50			2SB1188(Q,R)	TRANSISTOR	
Q12 Q12			DTC144EK KRC104S	DIGITAL TRANSISTOR DIGITAL TRANSISTOR		Q51 Q51			DTC124EK KRC103S	DIGITAL TRANSISTOR DIGITAL TRANSISTOR	
∡الد			NHU1040	DIGITAL INANSISTUM		Qol			NHO 1000	DIGITAL IDANSISTOR	
Q12			UN2213	DIGITAL TRANSISTOR		Q51			UN2212	DIGITAL TRANSISTOR	
213			2SB1443 2SC2412K	TRANSISTOR TRANSISTOR		Q52 Q52			DTC144EK KRC104S	DIGITAL TRANSISTOR DIGITAL TRANSISTOR	
				TRANSISTOR		Q52 Q52			UN2213	DIGITAL TRANSISTOR	
Q14 Q14			2SD601A								

E1: KMD-PS971R

PARTS LIST

* New Parts

Parts without Part No. are not supplied.

Les articles non mentionnes dans le Parts No. ne sont pas fournis.

Teile ohne	Parts	No.	werden nicht geliefe	ert.								
Ref. No.	A d d	N e w	Parts No.	Description		Desti- nation	Ref. No	A d d	N e w	Parts No.	Description	Desti- nation
Q53 ,54 Q56 Q56 Q56 Q57			2SD601A DTC144EK KRC104S UN2213 DTA124EK	TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR								
Q57 Q57 Q58 Q59 TH1			KRA103S UN2112 DTA123JK 2SB709A PTH9C42BD471Q	DIGITAL TRANSISTOR DIGITAL TRANSISTOR DIGITAL TRANSISTOR TRANSISTOR POSITIVE RESISTOR								
A1 A1	3D 3D	*	X86-3100-10 X86-3222-70	TUNER UNIT TUNER UNIT		K E1						
		D	AUGHTER U	INIT (X89-2410-10)								
C1 C2 C3 C4 C5			C90-2966-05 CK73FB1H103K C90-2966-05 CK73FB1H103K C90-2984-05	CHIP C 0.010UF ELECTRO 100UF CHIP C 0.010UF	16WV K 16WV K 50WV							
C6 C7			CK73FB1H103K CK73EB1C225K		K K							
CN1			E40-3250-05	PIN ASSY								
L1			L33-1029-05	SMALL FIXED INDUCTOR (22	22UH)							
R1 R2 R3 R4			RK73EB2B473J RK73FB2A152J RK73EB2B103J R92-2104-05	CHIP R 1.5K J CHIP R 10K J	1/8W 1/10W 1/8W 1W							
D1 D2 D3 D3 Q1			MA4100-L MA4051(N)-M DA204K KDS226 2SB1184	ZENER DIODE ZENER DIODE DIODE DIODE TRANSISTOR								
Q2 Q2			2SC2412K 2SD601A	TRANSISTOR TRANSISTOR								
A1	2D	*	W02-3232-05	ELECTRIC CIRCUIT MODULE	.E							

E1: KMD-PS971R E : Europe **K**: KMD-X92 K: North America M: Other Areas

PARTS DESCRIPTIONS

CAPACITORS

CC 45 TH 1H 220 J

1 = Type ... ceramic, electrolytic, etc.

4 = Voltage rating 5 = Value

2 = Shape ... round, square, ect. 3 = Temp. coefficient

6 = Tolerance



· Capacitor value

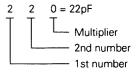
010 = 1pF

100 = 10pF

101 = 100pF

 $102 = 1000 pF = 0.001 \mu F$

 $103 = 0.01 \mu F$



Temperature coefficient

1st Word	С	L	Р	R	S	Т	U
Color*	Black	Red	Orange	Yellow	Green	Blue	Violet
ppm/°C	0	-80	-150	-220	-330	-470	-750

2nd Word	G	Н	J	K	L
ppm/°C	±30	±60	±120	±250	±500

Example : CC45TH = -470 ± 60 ppm/°C

· Tolerance (More than 10pF)

Code	С	D	G	J	K	М	Х	Z	Р	No code
(%)	±0.25	±0.5	±2	±5	±10	±20	+40	+80	+100	More than 10μ F – $10 \sim +50$
							-20	- 20	-0	Less than 4.7μF –10 ~ +75

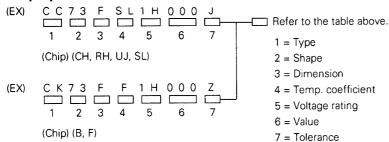
(Less than 10pF)

Code	В	С	D	F	G
(pF)	±0.1	±0.25	±0.5	±1	±2

Voltage rating

2nd word	Α	В	С	D	Е	F	G	Н	J	K	V
1st word											
0	1.0	1.25	1.6	2.0	2.5	3.15	4.0	5.0	6.3	8.0	-
1	10	12.5	16	20	25	31.5	40	50	63	80	35
2	100	125	160	200	250	315	400	500	630	800	_
3	1000	1250	1600	2000	2500	3150	4000	5000	6300	8000	_

· Chip capacitors

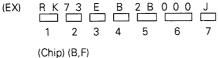


Dimension (Chip capacitors)

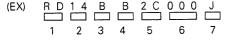
Dimension code	L	W	Т
Empty	5.6 ± 0.5	5.0 ± 0.5	Less than 2.0
А	4.5 ± 0.5	3.2 ± 0.4	Less than 2.0
В	4.5 ± 0.5	2.0 ± 0.3	Less than 2.0
С	4.5 ± 0.5	1.25 ± 0.2	Less than 1.25
D	3.2 ± 0.4	2.5 ± 0.3	Less than 1.5
Е	3.2 ± 0.2	1.6 ± 0.2	Less than 1.25
F	2.0 ± 0.3	1.25 ± 0.2	Less than 1.25
G	1.6 ± 0.2	0.8 ± 0.2	Less than 1.0

RESISTORS

· Chip resistor (Carbon)



· Carbon resistor (Normal type)



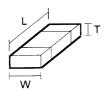
1 = Type5 = Rating wattage 2 = Shape6 = Value

7 = Tolerance

4 = Temp. coefficient

3 = Dimension

Dimension



Dimension (Chip resistor)

Dimension code	L	W	T
E	3.2 ± 0.2	1.6 ± 0.2	1.0
F	2.0 ± 0.3	1.25 ± 0.2	1.0
G	1.6±0.2	0.8±0.2	0.5±0.1

Rating wattage

	, marrago				
Code	Wattage	Code	Wattage	Code	Wattage
1J	1/16W	2C	1/6W	3A	1W
2A	1/10W	2E	1/4W	3D	2W
2B	1/8W	2H	1/2W		

SPECIFICATIONS

		KMD-PS971R (E)	KMD-X92 (K)
		MASK	MASK
	Frequency Range (Frequency Step)	87.5MHz-108.0MHz (50KHz)	87.9MHz-107.9MHz (200KHz)
	Channel Space Selection	-	50KHz/200KHz
	Usable Sensitivity (S/N 26dB)	9.3dBf (0.7μV/75Ω)	9.3dBf (0.8μV/75Ω)
FM	Quieting Sensitivity (S/N 46dB)	15.2dBf (1.6μV/75Ω)	15.2dBf (1.6μV/75Ω)
	Frequency Response (±3.0dB)	30Hz-15KHz	30Hz-15KHz
	S/N	65dB (MONO)	70dB (MONO)
	Selectivity	≧80dB (±400KHz)	≧80dB (±400KHz)
	Stereo Separation	35dB (1KHz)	40dB (1KHz)
MM/ AM	Frequency Range (Frequency Step)	531KHz-1611KHz (9KHz)	530KHz-1700KHz (10KHz)
MW or AM	Channel Space Selection	-	9KHz/10KHz
	Usable Sensitivity	28dBμ (25μV)	28dBμ (25μV)
1.147	Frequency Range	153KHz-281KHz	-
LW	Usable Sensitivity (S/N 20dB)	45μV	-
	Laser Diode	GaAlAs (λ=780mm)	GaAlAs (λ=780mm)
	Digital Filter (D/A)	8 Times Over Sampling	8 Times Over Sampling
	D/A Converter	1 Bit	1 Bit
	Spindle Speed	400-900(CLV)	400-900(CLV)
MD	Wow & Flutter	Below Mesurable Limit	Below Mesurable Limit
I WID	Frequency Response	20-20KHz (±2dB)	20-20KHz (±2dB)
	Total Harmonic Distortion	0.01% (1KHz)	0.01% (1KHz)
	S/N Ratio	90dB (1KHz)	90dB (1KHz)
	Dinamic Range	90dB	90dB
	Channel Separation	85dB	85dB
Preout Level / Le	oad (Unbalanced)	4500mV/10KΩ (CD/CD-CH)	4500mV/10KΩ (CD/CD-CH)
Preout Impedan		80Ω	80Ω
	Maximum Power	45W x4	45W x4
AMPLIFIER	Power DIN45324, +B=14.4V	28W x4	-
7	Full Bandwidth Power	-	22W x4
	(at less than 1% THD)		
TONE	Bass	100Hz ±10dB	100Hz ±10dB
	Treble	10KHz±10dB	10KHz ±10dB
	Operating Voltage (11V-16V allowable)	14.4V	14.4V
	Current Consumption	10A	10A
GENERAL	Installation Size (Width)	182mm	182mm
]	(Height)	53mm	53mm
1	(Depth)	162mm	162mm
	Weight	1.8Kg	1.8Kg

KENWOOD follows a policy of continuous advancements in development. For this reason specifications may be changed without notice.

KENWOOD CORPORATION

14-6, Dogenzaka 1-chome, Shibuya-ku, Tokyo, 150-8501 Japan

KENWOOD SERVICE CORPORATION

P.O. Box 22745, 2201 East Dominguez Street, Long Beach, CA90801-5745, U.S.A.

KENWOOD ELECTRONICS CANADA INC.

6070 Kestrel Road, Mississauga, Ontario, Canada L5T 1S8

KENWOOD ELECTRONICS LATIN AMERICA S.A.

P.O. Box 55-2791, Piso 6, Plaza Chase, Cl. 47 y, Aquilino de la Guardia, Panama, Republic of Panama

KENWOOD ELECTRONICS BRASIL LTDA.

Av. Moema, 170-17°, Andar-Cobertura "B", Ed. Maximum Service Center, 04077-020 Moema, São Paulo-SP-Brasil

KENWOOD ELECTRONICS UK LIMITED

Kenwood House, Dwight Road, Watford, Herts, WD1 8EB, United Kingdom

KENWOOD ELECTRONICS DEUTSCHLAND GMBH

Rembrücker Str. 15, 63150 Heusenstamm, Germany

KENWOOD ELECTRONICS FRANCE S.A.

13, Boulevard Ney, 75018 Paris, France

KENWOOD ELECTRONICS BELGIUM N.V.

Mechelsesteenweg 418, B-1930 Zaventem, Belgium

KENWOOD ELECTRONICS ITALIA S.p.A.

Via G. Sirtori 7/9, 20129 Milano, Italy

KENWOOD IBÉRICA S.A.

Bolivia, 239-08020 Barcelona, Spain

KENWOOD ELECTRONICS AUSTRALIA PTY. LTD.

(A.C.N. 001 499 074)

16 Giffnock Avenue, North Ryde, N.S.W. 2113, Austraria

KENWOOD ELECTRONICS (HONG KONG) LTD.

Unit 3712-3724, Level 37, Tower 1, Metroplaza, 223 Hing Fong Road, Kwai Fong, N.T., Hong Kong

KENWOOD ELECTRONICS GULF FZE

P.O.Box 61318, Jebel Ali, Dubai, U.A.E.

KENWOOD ELECTRONICS (THAILAND) CO., LTD.

2019 New Pechburi Road, Bangkapi, Huaykwang, Bangkok, 10320 Thailand

KENWOOD ELECTRONICS SINGAPORE PTE LTD.

1 Genting Lane, #07-00, Kenwood Building, Singapore 349544

KENWOOD ELECTRONICS (MALAYSIA) SDN BHD

#4.01 Level 4, Wisma Academy Lot 4A, Jalan 19/1, 46300 Petaling Jaya, Selangor Darul Ehsan, Malaysia